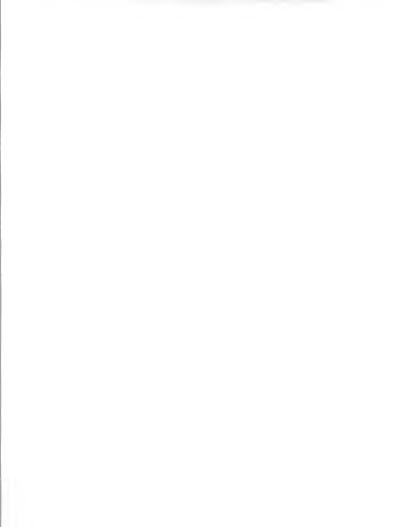
1989 U.S. User Survey Results

Robert L. Goodwin Vice President INPUT



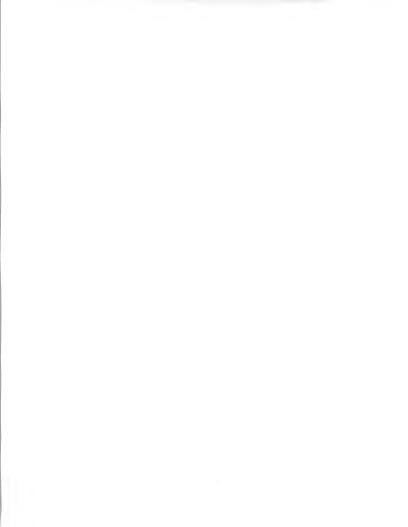
1989 User Surveys

- · Large systems
- Mid-range systems
- PC/workstations
- Third-party maintenance

INPUT

otes	

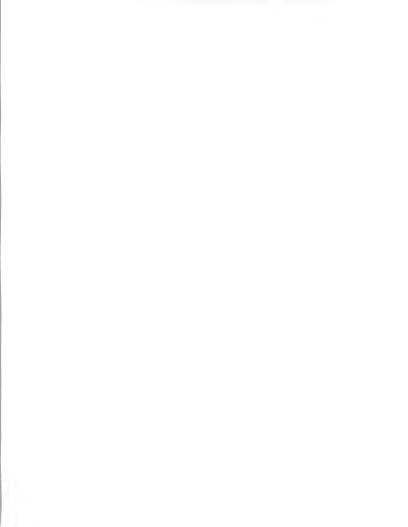
FSEM-BG-1



1989 INPUT Research Base

User Research	No. of Surveys
Large system users	374
Mid-range system users	399
PC/workstation users	178
TPM users	184
Total users	1,135

Notes		



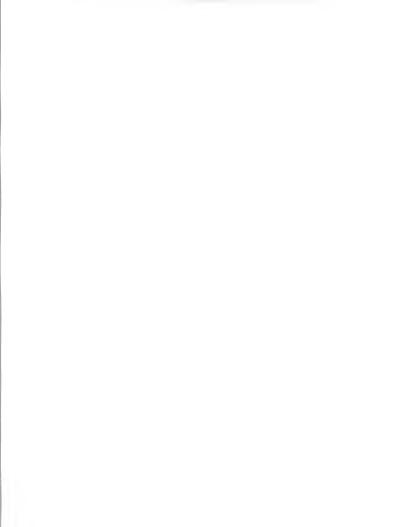
User Surveys

· Large systems

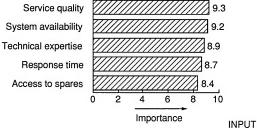
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Notes

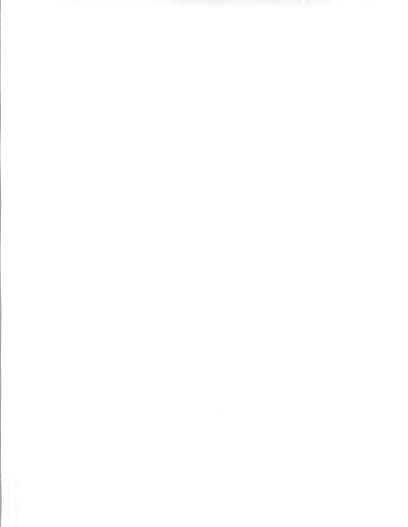
FSEM-BG-3

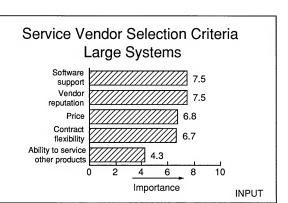


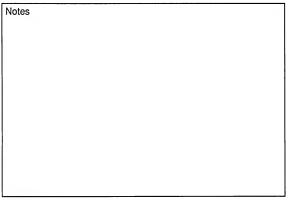
Service Vendor Selection Criteria Large Systems Service quality 9.3



Notes



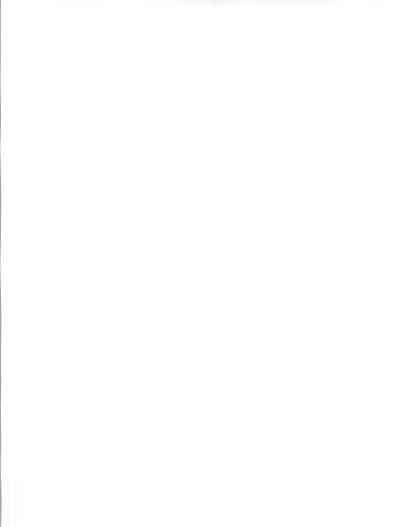




Service Contract Coverage All Large Systems

Contract Component	Sample Responding (Percent)	
	1988	1989
 Days of coverage 		
- Monday - Friday	46	45
- Monday - Saturday	2	1
- Monday - Sunday	52	54

Notes	



Service Contract Coverage All Large Systems

Contract Component	Sample Responding (Percent)	
	1988	1989
 Hours of coverage 		
-1 to 9 hours	34	41
-10 to 16 hours	11	6
-17 to 24 hours	55	53

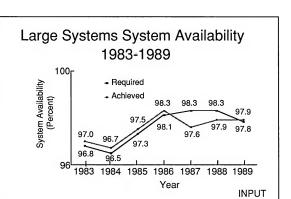
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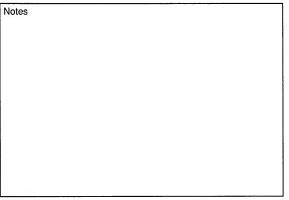
System Availability Analysis All Large Systems Performance Received Criteria System 97.9 availability (%) Response 2.0 time (hrs.) Repair 2.5 86 time (hrs.) 100

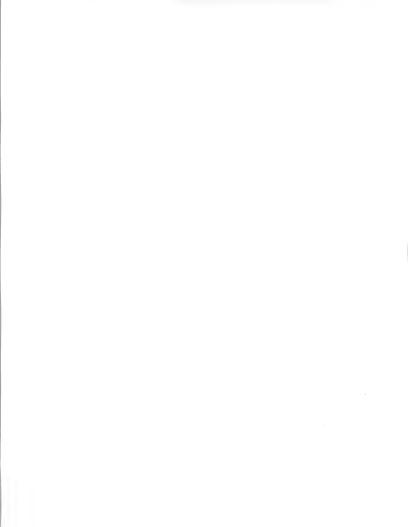
Percent Satisfied

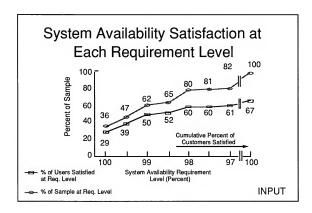
Notes	



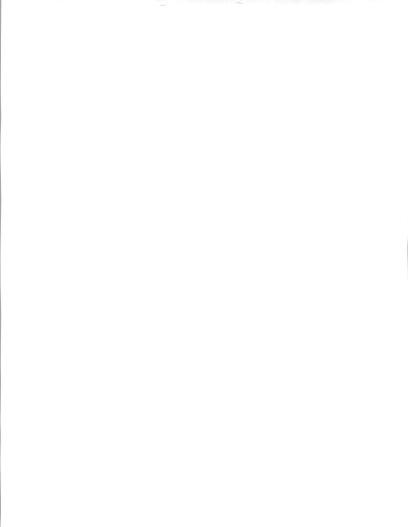








Notes		

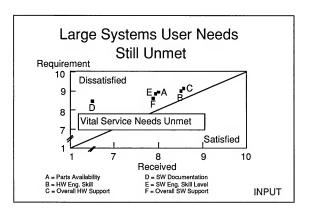


System Interruption Analysis—All Large Systems

System Interruptions (Per month)	.9	_
	Percent	-
- Hardware-caused	63	
 System software-caused 	16	
 Application software-caused 	5	
- Other-caused	16	
	ı	INPUT

Notes		

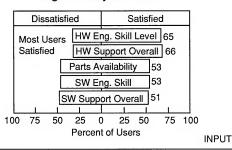




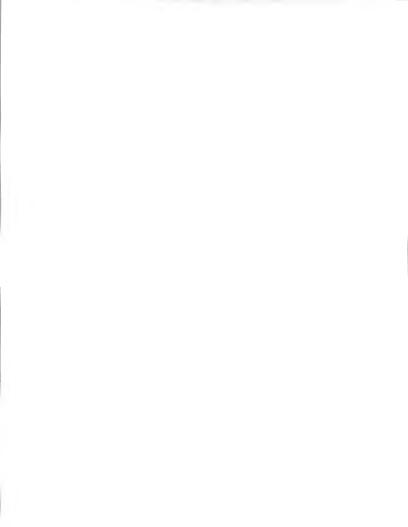
Notes		



Large Systems User Satisfaction with High-Priority Services



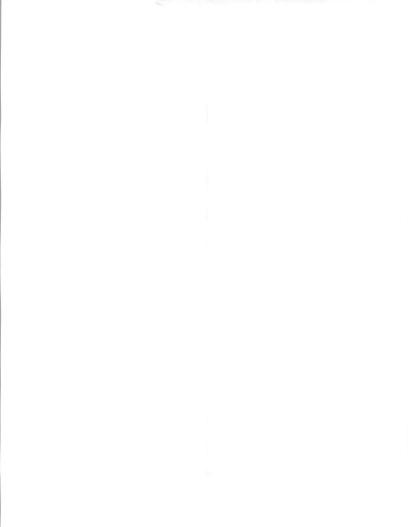
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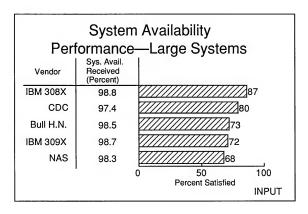


Large Systems User Satisfaction with High-Priority Services

	Dissatisfied				Satisfied					
	Most I Dissat									
	63	SW [Docum	nenta	tion					
	51	SW	Remo	te S	uppor	t				
			ı		1					
10	0 75	50	25	0	25	50	75	100		
		1	Perce	nt of	Users	;				
									INPUT	

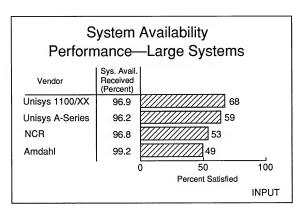
Notes

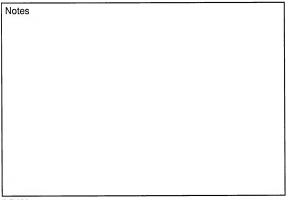


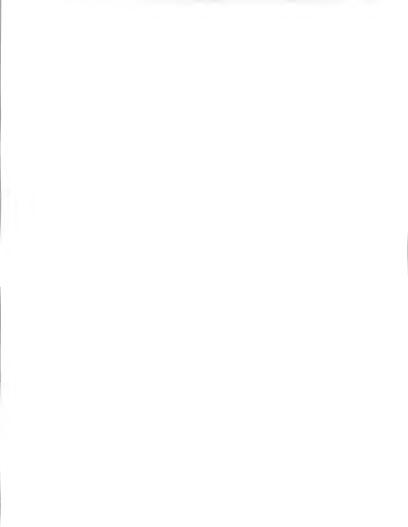


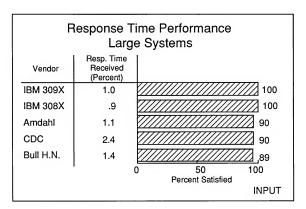
Notes	



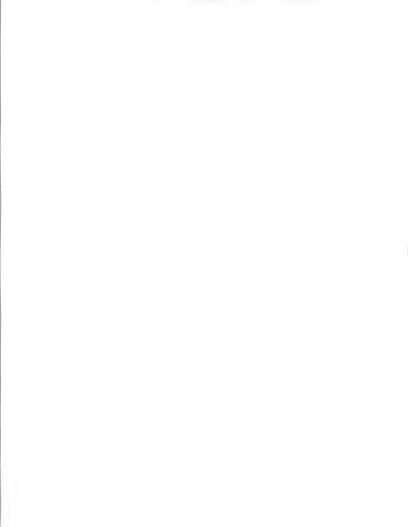


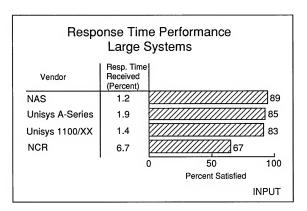




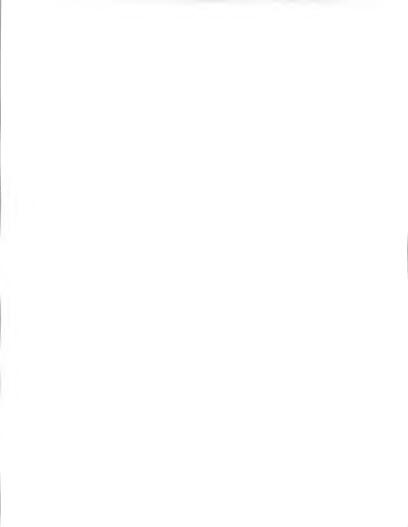


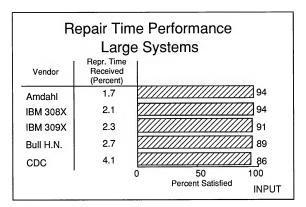
Notes		



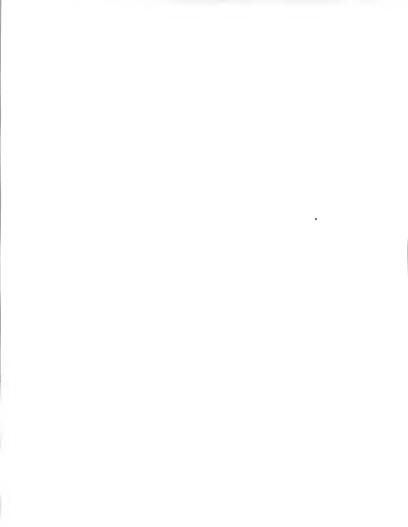


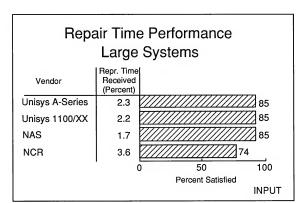
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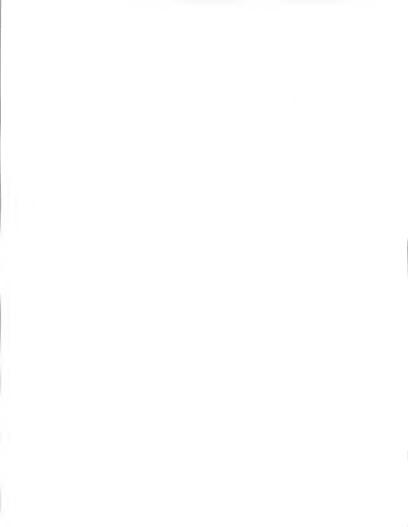


Notes		





Notes			



User Surveys

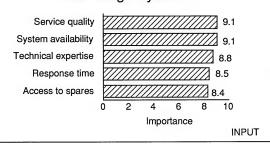
Mid-Range Systems

INPUT

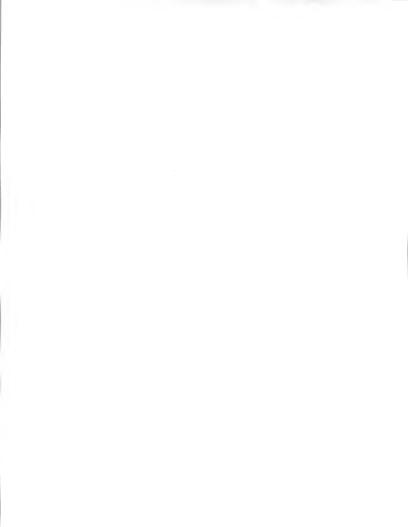
FSEM-BG-21



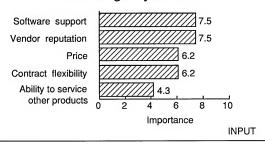
Service Vendor Selection Criteria Mid-Range Systems



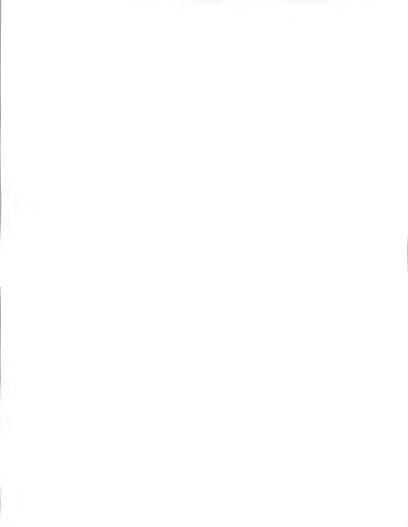
Notes		



Service Vendor Selection Criteria Mid-Range Systems



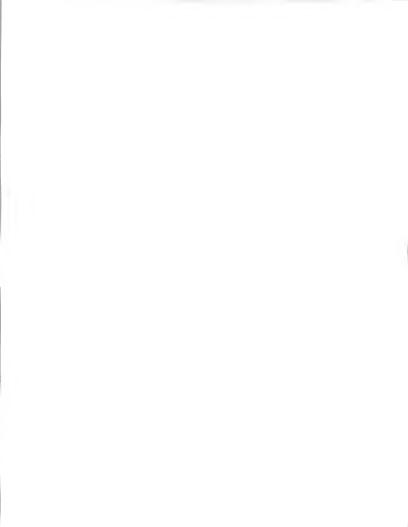
otes			



Service Contract Coverage All Mid-Range Systems

Contract Component	Sample Responding (Percent)		
	1988	1989	
Days of coverage			
- Monday - Friday	66	64	
- Monday - Saturday	4	3	
- Monday - Sunday	30	33	

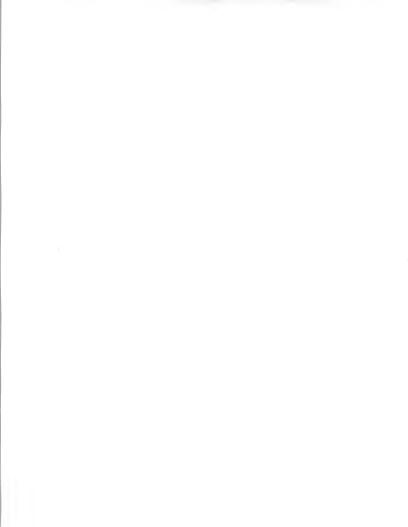
Notes	



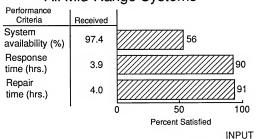
Service Contract Coverage All Mid-Range Systems

Contract Component	Sample Responding (Percent)		
	1988	1989	
Hours of coverage			
- 1 to 9 hours	54	56	
- 10 to 16 hours	14	13	
- 17 to 24 hours	32	31	

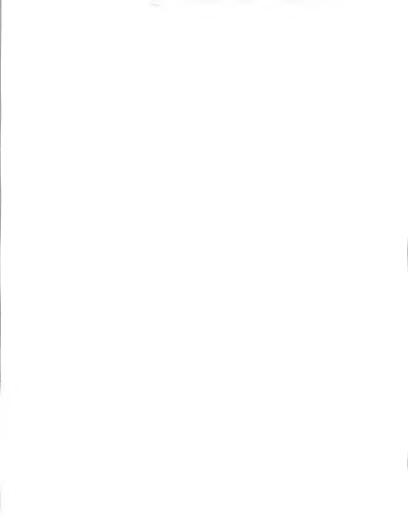
Notes		

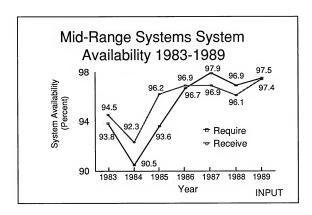


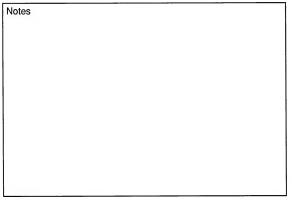
System Availability Analysis All Mid-Range Systems



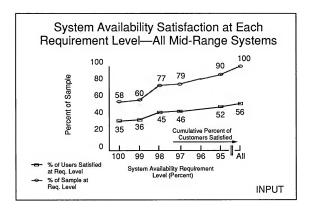
lotes			













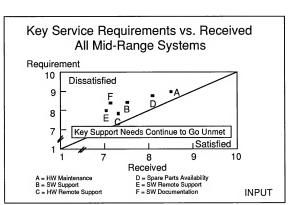


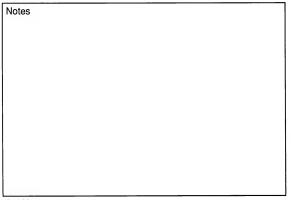
System Interruption Analysis All Mid-Range Systems

System Interruptions (Per month)	.59	
	Percent	
Hardware-caused	63	
System software-caused	13	
Application software-caused	4	
Other-caused	20	
	1	INDIT

Notes			

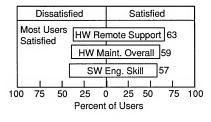




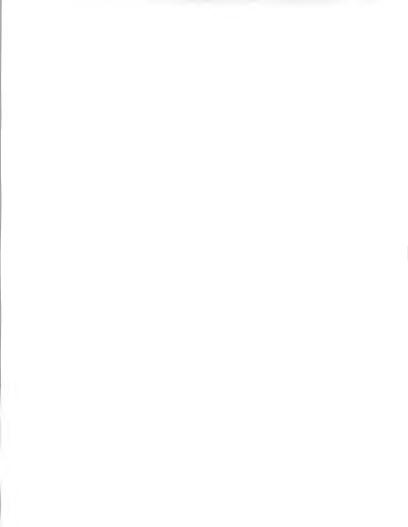




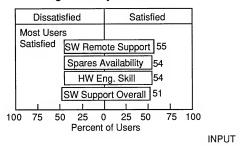
Mid-Range Systems User Satisfaction with High-Priority Services



Notes	



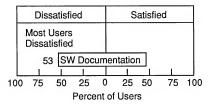
Mid-Range System User Satisfaction with High-Priority Services



Notes

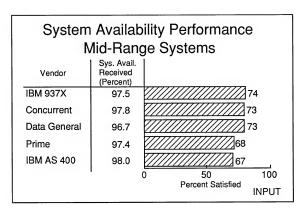


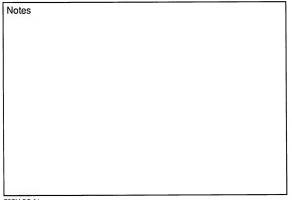
Mid-Range System User Satisfaction with High-Priority Services

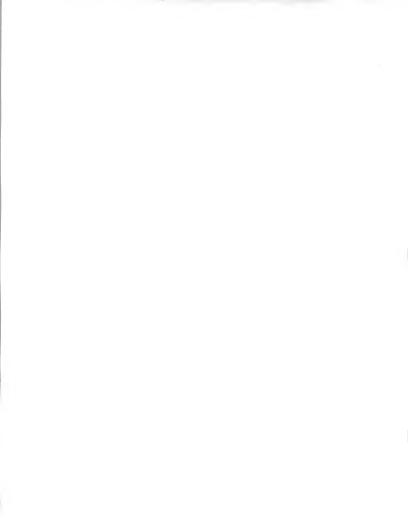


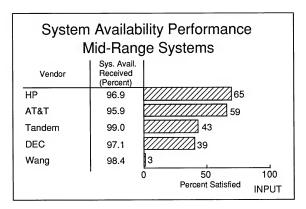
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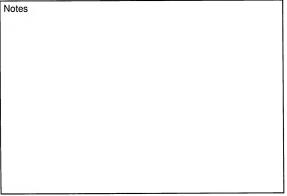




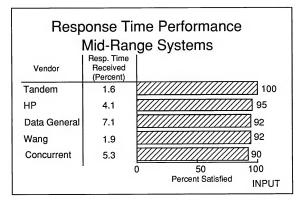




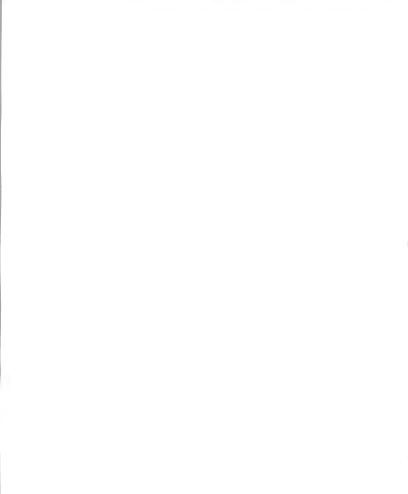


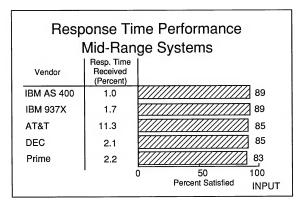




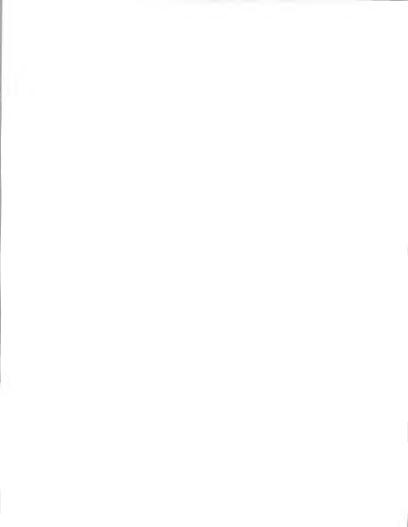


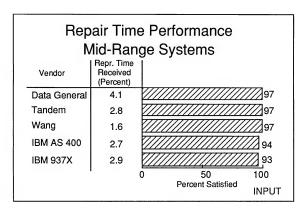
Notes		



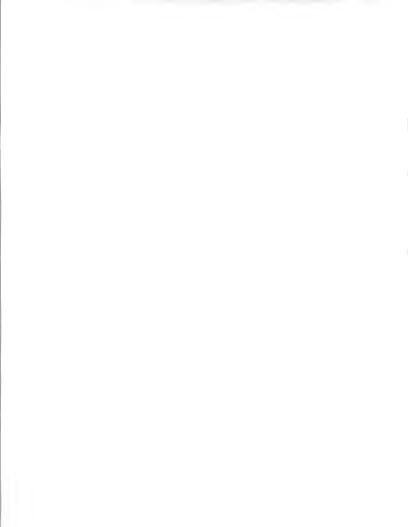


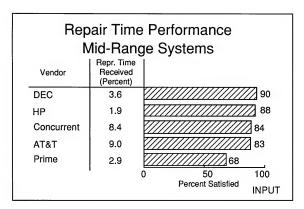
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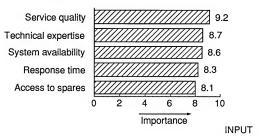


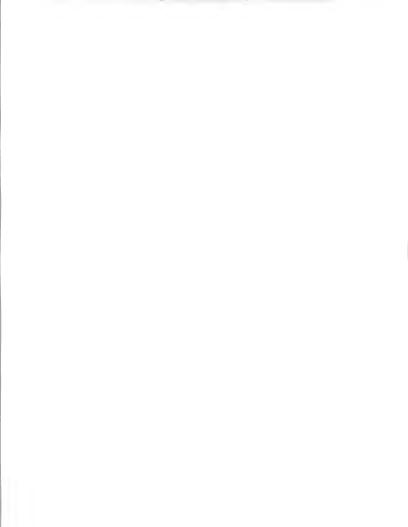
User Surveys Third-Party Maintenance

Notes		

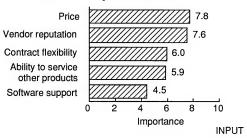
FSEM-BG-40

Service Vendor Selection Criteria Third-Party Maintainers

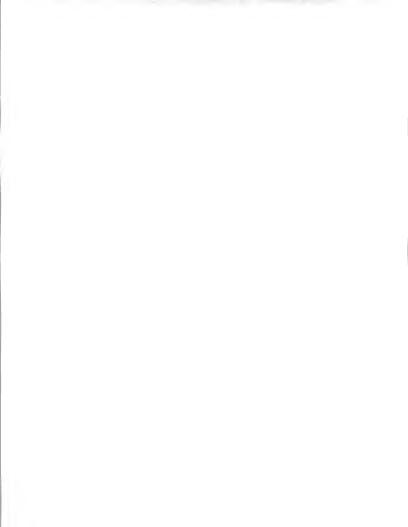




Service Vendor Selection Criteria Third-Party Maintainers



Notes	



TPM Contract Coverage All Users

	Sample (Percent)	
Service Coverage	1988	1989
 Days of Coverage 		
Monday - Friday	71	64
Monday - Saturday	4	2
Monday - Sunday	25	34

Notes		

TPM Contract Coverage All Users

	Sample (Percent)	
Service Coverage	1988	1989
Hours of Coverage		
1 - 9 hours	62	53
10 - 16 hours	9	12
17 - 24 hours	29	35

Notes		

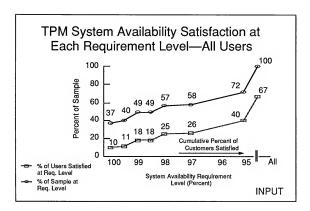


TPM System Availability Analysis All Users

Component	Require	Receive	
System availability (%)	94.4	95.9	67
Response time (hrs.)	5.0	3.9	91
Repair time (hrs.)	7.8	6.1	81
	1	1	0 25 50 75 100
			Percent Satisfied
			INPUT

Notes	







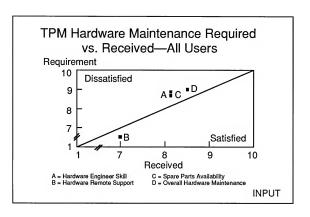


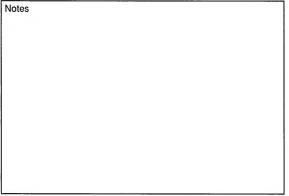
TPM System Interruption Analysis—All Users

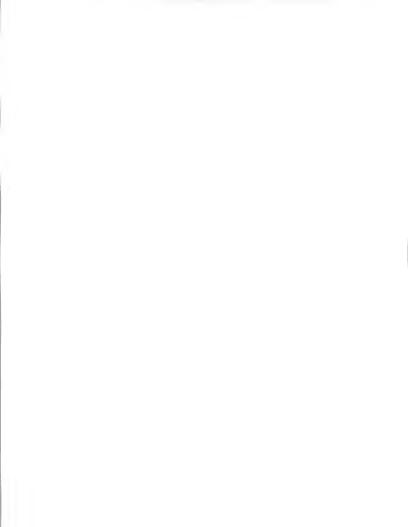
System Interruptions (per month)	1.2
Hardware-caused	Percent 66
System software-caused	9
Applications software-caused	5
Other (i.e., user-caused)	20

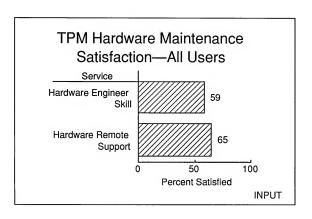
Notes		





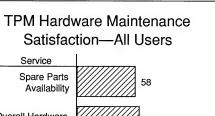






Notes		





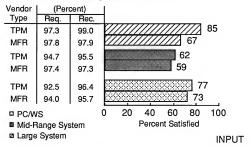
Overall Hardware Maintenance 0 50 100

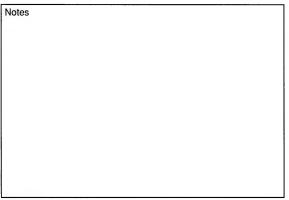
Percent Satisfied

Notes			

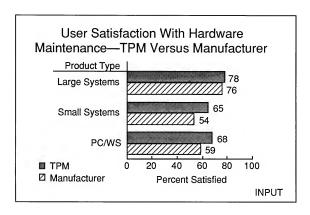


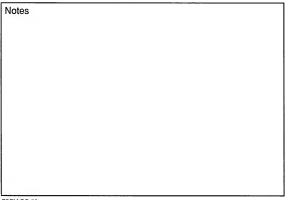
TPM Versus Manufacturer System Availability Performance



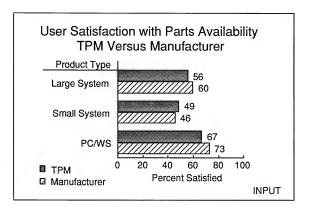
















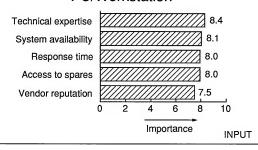
User Surveys PC/Workstations

Notes	

FSEM-BG-54

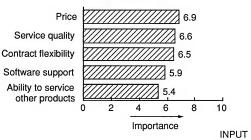


Service Vendor Selection Criteria PC/Workstation





Service Vendor Selection Criteria PC/Workstation



Notes		



Service Contract Coverage PC/Workstations

Days Covered	Percent of Sample — 1989
Monday - Friday	76
Monday - Saturday	1
Monday - Sunday	23

Notes	

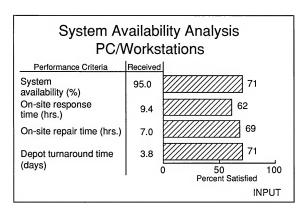


Service Contract Coverage PC/Workstations

Hours Covered	Percent of Sample —1989
1 - 9	75
10 - 16	4
17 - 24	21

Notes	





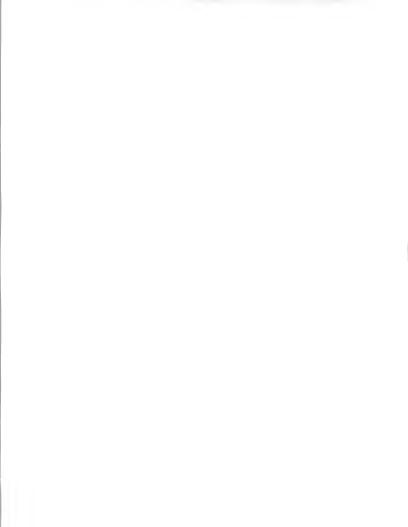
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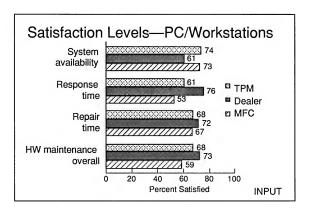


System Availability Performance Analysis PC/Workstations

	MFC	Dealers	TPM
System availability (%)	95.7	95.0	94.5
Response time (hrs.)	11.3	11.1	7.1
Repair time (hrs.)	6.9	3.9	8.9
Depot turnaround (days)	4.6	2.2	3.3

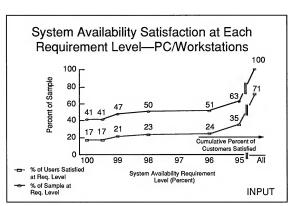
Notes		





otes	









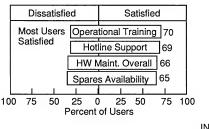
System Interruption Analysis PC/Workstations

	Mean (1989)
System interruptions per month	1.3
Hardware-caused	77.0
System software-caused	8.0
Application software-caused	5.0
Other-caused	10.0

Notes		



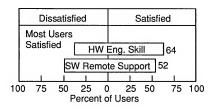
PC/Workstation User Satisfaction with High-Priority Services



Notes	



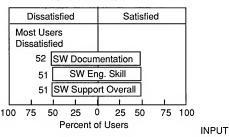
PC/Workstation User Satisfaction with High-Priority Services



Notes		

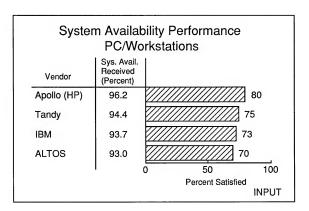


PC/Workstation User Satisfaction with High-Priority Services

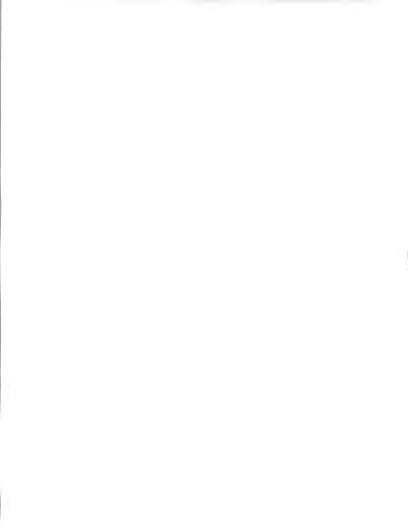


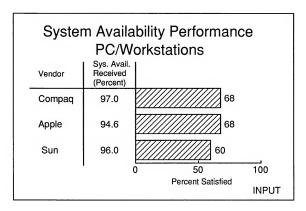
Notes			











Notes	



Robert L. Goodwin Vice President Western Operation

PROFILE

CAPABILITIES

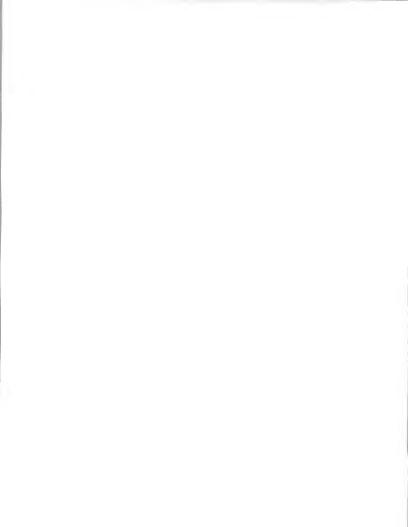
- Twenty-five years successful sales, marketing, and general management in the computer equipment, remote processing services and software industries.
- Expertise in business plan development, strategic partnering and acquisitions, industry marketing, VAR and reseller operations.

BACKGROUND

- Robert (Bob) Goodwin brings to INPUT and its clients comprehensive experience in executive management in large and mid-size corporations.
- Most recently he has served as President of COMMAND DATA SYSTEMS, a public safety software and turnkey systems vendor. With Bob's leadership and marketing strategy, CDS became a highly visible and respected vertical market leader.
- Bob's qualifications include the role of Director of Marketing for Xerox Computer Services, in support of all field sales and customer services activities.
- · IBM utilized Bob's skills as Branch Manager and Assistant District Manager.

EDUCATION

- · B.A., Psychology, Occidental College.
- Attended the MBA program, Golden Gate University.



DOB GOODWIN

To: Andrea Jeri's INPUT MT View

From: Buddy Stigler

Attached are the pages for the Slide presentation that Bob Goodmin will make on the 2md day of my conference

I tried to use existing slile formuts where possible to simplify the production process, There are 69 slides in the presentation

Thanks, 60

1989

User Surveys

- Large Systems

FPRB-21

- Midange Servell Systems PC/Workstations
- Third Party Maintenance

NOTES:	
	100
	1110





1989 1988 INPUT Research Base

User Research	No. of Surveys
Large System Users	384 374
Mid-range Small System Users PC/Works In Into USERS TPM Users	399 399 178 200 184
Total Users	980 1135
10tai 03613	INPUT

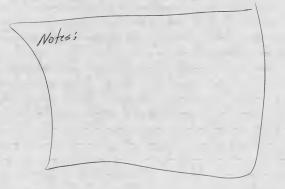
NOTES:	
FPRB-22a	





USER SURVEYS Large Systems

Input



SERVICE VENDOR SELECTION CRITERIA

LARGE SYStems 9.3 SERVICE QUALITY Sys tems Availability Technical Expertise. Response time Access to 5 parcs Importance

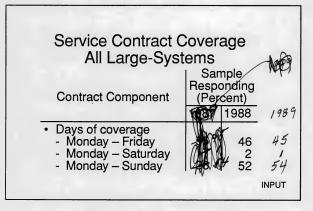




SERVICE VENDOR SELECTION CRITERIA LARGE SYStems 7.5 softwere support Vondor Reputation Price 16.7 contract Flex. 6.1.3 14.3 Ability to service Importance

4





NOTES:		
FPRB-23a		





Service Contract Coverage
All Large-Systems
Sample
Responding
(Percent)
1987 1988 /989

Hours of coverage
- 1 to 9 hours
- 10 to 16 hours
- 17 to 24 hours

NAME OF THE PROPERTY OF THE PROPER

NOTES:				
FPRB-23b				

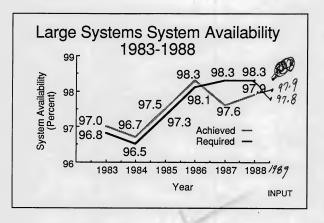




System Availability Analysis All Large Systems Percent Satisfied Performance 50 Criteria Received 100 System 97.9 Availability (%) Response Time (hrs) Repair Time(hrs) INPUT

NOTES:		
	A. C. A.	
	1800 D	
FPRB-24		





NOTES:			
FPRB-25			

INPUT



10

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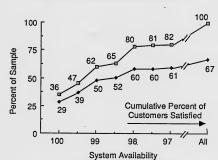
e of their

ity they

In 1989, large-system users reported that they received system availabil-Aty of 97.9%, versus an expressed requirement of 97.8%. As stated in the previous section, user requirements for system availability dropped in 1989 (from 98,3% in 1988 to 97.8% in 1989), contributing to increased satisfaction with system availability in 1989, with 67% of the large systems sample/satisfied with system availability (up from 62% in 1988).

Exhibit II-3 presents the percentage of users who require system availa bility at each requirement level, as well as the cumulative percentage of users who are satisfied at each requirement level. For example, 36% of the 1989 large-systems users surveyed reported that they require 100% system availability. Of those users, the large-systems vendors were able to satisfy 29%. Sixty-two percept of the users require 99% system availability or better, and large-systems vendors were able to satisfy 50% of those users.

SYSTEM AVAILABILITY SATISFACTION AT EACH REQUIREMENT LEVEL



- Requirement Level (Percent)
- Percent of Sample at Requirement Level Percent of Users Satisfied at the Requirement Level

1988 to 1 nal Adva system (large is. IBM ked imem inter o 0.5 per nmed in onth

evable." ers satis al Adva ted with

nth in 19 ted syst

Page 8

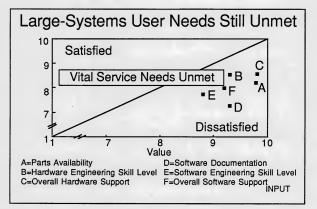
System Interruption Analysis—All Large Systems

Systems Interruptions (per month)	15.9
Hardware causedSystem Software causedApplication Software causedOther caused	Percent 63 16 19 16 19 16
	INPUT

NOTES:	
FPRB-27	







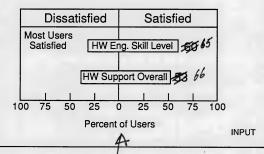
```
Replot above for 1989

Required Accomme
NOTES:
                                    Account
    Parts Avail 8.9
  HW Eng SKill
C overall HW support 9.1
O SW Documentation 8.4
                                      8.6
                                     6.8
E SW Eng SKill Level 8.8
                                     2.9
                                     7.8
F Own 11 SW SUPPORT 8.6
 FPRB-28
```

INPUT







NOTES:

FPRB-29a

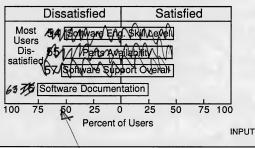
Add to Above

SW Eng SKill 53 GATTHE

sw support overall 51



Large System User Satisfaction with High-Priority Services



NOTES: Add to above

SU Remote Support 31 disgraphical

FPRB-29b

14



Systems Availability Performance— Large Systems				
	Sys. Avail. Received	Percent Satisfied		
Vendor	(Percent)	\ 50 100		
NAS ,	99.0,	///////////////////////////////////////		
Amdahl	98.2	///////////////////////////////////////		
NCR	97.1	//////////////////////////////////////		
IBM/309X	98.1	///////////////////////////////////////		
IBM 308X	98.6	///////////////////////////////////////		
, (INPUT		

NOTES:	Received	90	_
IBM 308X	98.8	87.9	
CDC	97.4	80	
Bull H.N.	98.5	73	
IBM 309X	98.7	72	
NAS.	983	68	
F900 04			
FPRB-31			



Systems Availability Performance Large Systems Sys. Avail. Received (Percent) UNISYS (Sperry) UNISYS 97.4 (Burroughs) CDC 97.5 Systems Percent Satisfied 50 100 Percent Satisfied 57 100 50 100 57 56 97.5 58 53

49

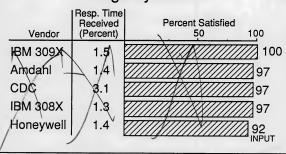
INPUT

Honeywell

	A UP	date
NOTES:		~
UNASYS 1100/XX	96.9	68
UNISYS A-Series	96.2	59
NCR	96.8	53
Amdahl	99.2	49
	Ċ	
FPRB-32		

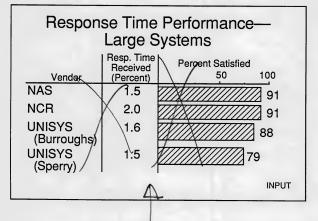


Response Time Performance— Large Systems



•		
NOTES:	Receive	70
IBM 309X	1.0	100
IBM 308X	.9	106
Amdahl	1.1	90
CDC	2.4	90
Bull H. N	1.4	89
FPRB-33		





NOTES:	Accioned 50		
NA5	1.2	89	
UNISYS A-Sonks	1.9	85	
UNISYS 1/09/XX	1-4	83	
NCR	6.7	67	
*			
FPRB-34	1		



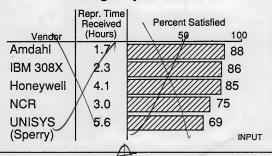
Repair Time Performance— Large Systems

Large Oystems						
	Vendor	Repr. Time Received (Hours)	Percent Satisfied	100		
	UNISYS (Burroughs)	7.1		100		
	IBM 309X	2.9		96		
	CDC	8.8		91		
	NAS	1.9		90		
				INPUT		

| Received Up | NOTES: | 1.7 | 94 | IBM 308X | 2.1 | 94 | IBM 309X | 2.3 | 91 | BUIL H.N. | 2.7 | 89 | CDC | 4.1 | 86



Repair Time Performance— Large Systems



NOTES:	Received	%	
UNISYS A-Sents	1.3	85	
UNISYS 1100/XX	2.2	85	
NAS	1.7	85	
NCR	3.6	74	
FPRB-36			



User Surveys

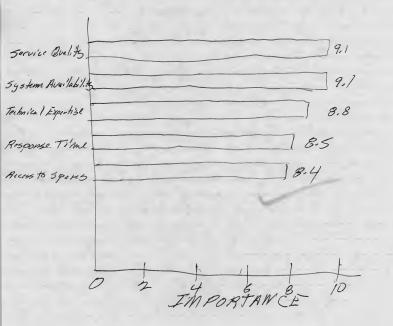
Mid-Range Small Systems

INPUT

NOTES:

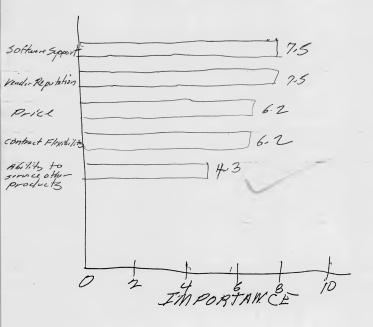


SERVICE VENDOR SELECTION CRITERIA Mid-RANGE Systems





SERVICE VENDOR SELECTION CRITERIA Mid-RANGE Systems





Service Contract Coverage All Small Systems

Mid-Range	CITIS	
Mid-Range	Jampie	
Contract	Responding	
Component	(Percent)	
Days of Coverage	1988	1989
Monday - Friday	-66-	64
Monday – Friday Monday – Saturday	.· 4	3
Monday - Sunday	30	3 3
		INPUT

NOTES:	
	*
FPRB-38a	



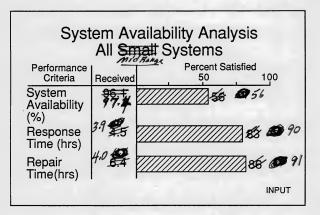
Service Contract Coverage All Small Systems

Contract Component	Sample Responding (Percent)
Hours of Coverage	1988 1989
1–9 Hours 10–16 Hours 17–24 Hours	54 <i>56</i> 14 13 32 13
	INPLIT

INPUT

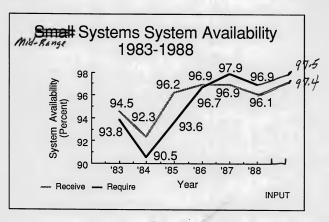
NOTES:	
	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IN COLUMN TO ADDRESS OF THE PERSON NAMED IN COLUMN TWO I
FPRB-38b	

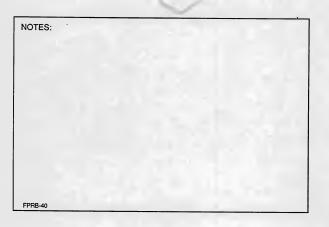




NOTES:	1	
FPRB-39		

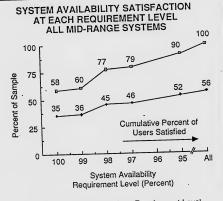












MA MILETELLIANT AVIOL

- --- Percent of Sample at Requirement Level
- Percent of Users Satisfied at the Requirement Level

EXHIBIT VI-7

HARDWARE MAINTENANCE REQUIRED VERSUS RECEIVED ALL MID-RANGE SYSTEMS

	ired \	1,1606	ived
Mean	SE	Mean	SE
8.9	0.1	8.3	0.1
7.8	0.2	7.3	0.1
8.8	0.1	8.1	0.1
9.0	0.1	8.3	0.1
	8.9 7.8 8.8	8.9 0.1 7.8 0.2 8.8 0.1	8.9 0.1 8.3 7.8 0.2 7.3 8.8 0.1 8.1

SE=Standard Error



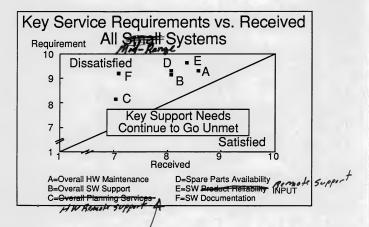
System Interruption Analysis All Small Systems System Interruptions

System Interruptions (per Month)	±2 · 59
Hardware Caused System Software Caused Applications Software Caused Other Caused (i.e., user-caused)	Percent 55 63 15 13 8 4 21 20

INPUT

NOTES:	
FPRB-42	

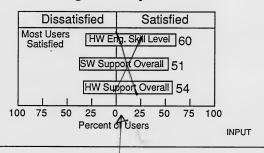




NOTES: Replot	Registed	Received
A HWMint	1.8	8.5
B-SW support	8-5	7.5
C HW Remote Support	7-8	7.3
a spar Parks Availability	8.8	8.1
E SW Remote Support	8.0	7./
F SW DOCUMENTATION	8.4	7.2
TDDD 40		
FPRB-43		



Small System User Satisfaction with High-Priority Services



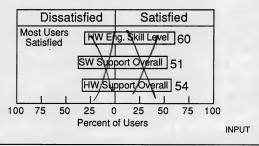
NOTES:

HW Remote Support 63 HW Maint Overall 59 SW Emg. SK:11 57

FPRB-44a



Small System User Satisfaction with High-Priority Services



NOTES:

Su Remote Support 55

Spares Availability 54

HW Engineering 5Kill 54

SW Support Overall 5/





NOTES:		
FPRB-44b		



Systems Availability Performance— Mid-Range Small Systems				
	Sys. Avail. Received	Percent Satisfied		
Vendor	(Rercent)	50 1	00	
DEC VAX 8XXX	96,5		93	
AT&T	96.3	67		
Concurrent	96.3	63		
HP /\	97.1	63		
Prime/	95,8	/////////// 62		
	' / '		INPUT	
	4			

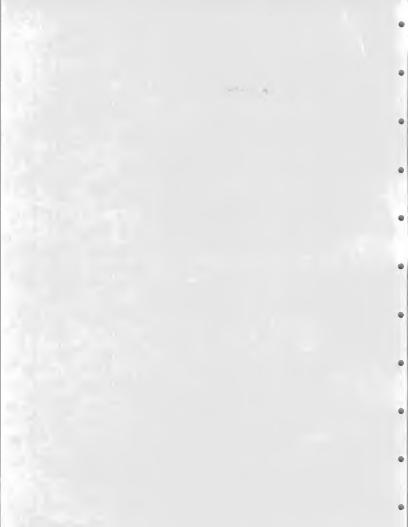
NOTES:	Received	96
IBM 937X	97.5	74
Concurrent	97.8	73
Data General	96-8	73
Prime	97.4	68
IBM A3 400	98.0	67
FPRB-45		



Systems Availability Performance— **Third-Range Small Systems**

	Sys. Avail. Received	Percent Satisfied	
Vendor	(Percent)	50	100
IBM Sys/38	96.2	/////// 53	
DG \	97,0/	<i>///////</i> 50	
DEC DP	95.3	<i>/////////////</i> 47	
IBM∕9370	94.6	<i>////////</i> 45	
Wang \	95.5	31	
\			INPUT
		/	

	1	
NOTES:	Rocewell	%
HP	96-9	65
AT+T Tandem	95.9	59
Jandem	99.0	43
DEC	97-1	39
Wang	9.8-4	3
FPRB-46		



Response Time Performance-Mid-Range Small Systems Resp. Time Percent Satisfied Received 100 Vendor (Percent) 50 HP Prime IBM Sys/38 Concurrent DEC VAX 8XXX 89 INPUT NOTES: Beceived Tandem Data General Wang IBM 85 400 5.3 Concurrent

FPRB-47



Response Time Performance—						
Vendor	IResp Time!		cent Satisfied			
NBM 9370 DEC PDP	1.7 3.5			86 85		
DG AT&T	3.6		8	31		
Wang	10.7 3.9		//////////////////////////////////////			
/ (,	1	Received	120	INPUT		
IBM.	AS 400	1.0	89			
NOTES:	- '	1.7	89			
ATT	11-		85			
DEC Prime	2.		83			
Prime	2-	2	03			
	•					
FPRB-48		1				



Repair Time Performance Mid-Range Small Systems						
Vendor	Repr. Time Received (Percent)		nt Satisfied			
Concurrent	4.7		97 1///////96			
DEC PDP DEC VAX 8XXX	3.6		92			
DEC VAX 8XXX	5.2 ¥	<u> </u>	91 INPUT			
/	1 PR	mered	90			
NOTES: Data Genera		4-1	97			
tandem		2.8	97			
Wang		1.6	97			
IBM 937		2.7	94			
FPRB-49						



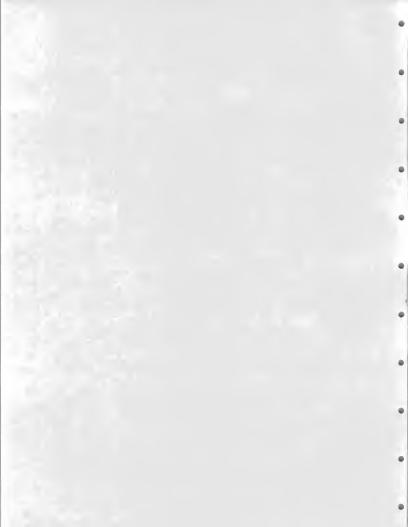
Repair Time Performance-MIO-RANGE STEEM Systems | Repr. Time | Percent Satisfied Received 50 100 Vendor (Percent) Prime √0.0× T&TA IBM \$xxs/38 Wang INPUT NOTES: Received DEC 3.6 HP concurrent 8-4 84 ATHT 9-0 83

2.9

Prime

FPRB-50

68

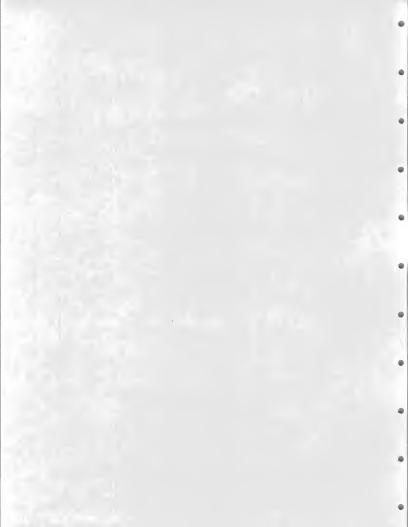


User Surveys

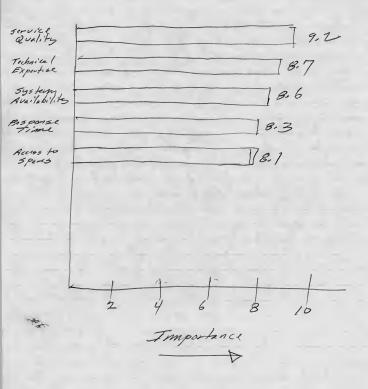
Third-Party Maintenance

INPUT

NOTES:



SERVICE VENDOR SELECTION CRITERIA Third Parts Maintainers





SERVICE VENOOR SELECTION CRITERIA Third Parts Maintainers

Price	7.8
Vendor Reputation	7.6
contract Flex bility	6.0
Ability to Service other Products	5.9
software support	4-5
	1111
	2 4 6 8 10
	Importance



TPM Contract Coverage— All Users

Service Coverage	Sample (Percent)	
Days of Coverage	88	89
Monday—Friday Monday—Saturday Monday—Sunday	71 4 25	64 2 34

INPUT

NOTES:



TPM Contract Coverage— All Users

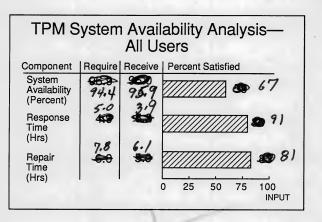
Service Coverage	Samp (Perce	le nt)
Hours of Coverage	88	89
1—9 Hours 10—16 Hours 17—24 Hours	62 9 29	53 12 35

INPUT

NOTES:	
	12.
FPRB-52b	



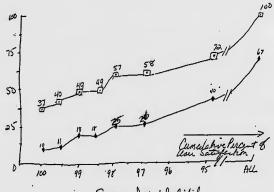
43







System Availability Sottisfaction At Each Registerent Level Oll Usus



System Availability Reguirement Level (Percent)

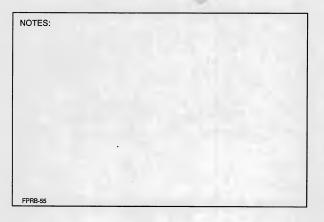
- - Procent of Sample at liquienest kind - Procent of lesers Satisfiel at the legiment Pinel



TPM System Interruption Analysis—All Users

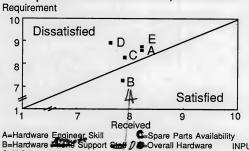
System Interruptions (per Month)	228 1.2
Hardware Caused System Software Caused Applications Software Caused Other (i.e., User Caused)	Percent 9 66 9 5 20

INPUT





TPM Hardware Maintenance Required vs. Received, All Users



B=Hardware Support Sup

NOTES: Replot Required Received

A Hardware Eng 5K:11 B-7 8.1

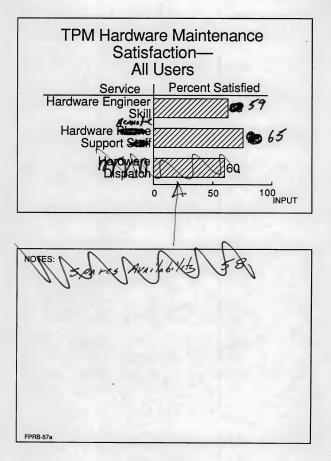
B Hardware Franck support 4.1 7.0

C. Space parks Availability 8.7 8.1

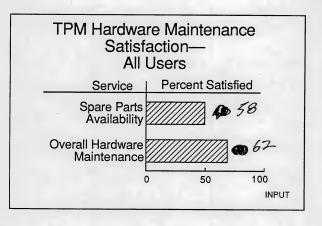
Do Overall HW Maiakener 9.0 8.5

FPRB-56





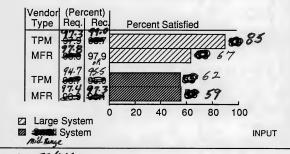




NOTES:			
FPRB-57b			



TPM Versus Manufacturer System Availability Performance



D PC/WS

FPRB-58

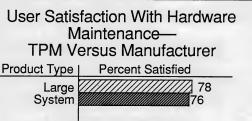
NOTES:

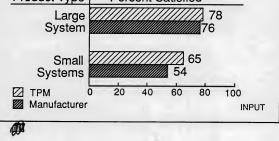
TPM 92.5 96.4 77%

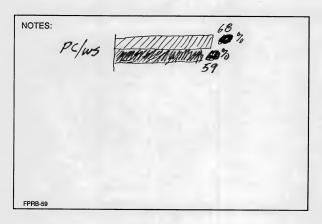
MFC 94.0 95.7 73%



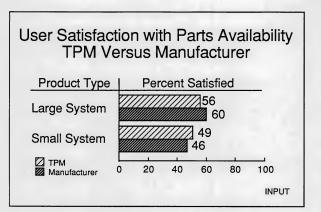
5V

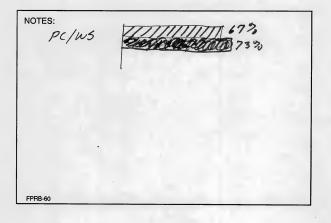














USER SURVEYS
PC/Workstations

INPUT



	SERVICE	VENDOR PC/Wor	Selection Kstation	CRITER	31A 55
Technical Expertise				†8.4	90
System Availability				8.1	
Risponse Time			5.	?0	
Access To Spares			8	,0	
Vendor Reputation			7.3		
=					
-					
	2	1)			-
			8	70	
		Import	ance -		



	SERVICE	PENOOR:	selection estation	CRITERI	A 56
Price			6.9		
Service Quality			16.6		
contract Flexibility] 6.5		
Softune support		1 6	5.9		
Ability to service		5-	4		
common at 11 of 2 of					- 1 1000

		- 1	1		
	_ 2	4 6	8	10	
		Import	incl.		
			→		



Service CONTRACT CONE	PC/Work	Stati	ins_1\
	1989 PERCENT OF SAMPLIS	3	PERCONI SE
DAU> COVERED			C
молюми - <i>Falany</i> межет - Батчесту	7.6		
MONDAY - SUNDAY	23		
Hours GOURGO HOURS HOURS	73		
16-24	21		C. D.



Service Contract, Coverage PC/Workstations 1989 PER CENT OF SAMPLE COVERED MONDAY. FRIDAY MONDAY - SATURDAY MONDAY - SUNDAY HOURS COVERED 1-9 HOURS 10 - 16 16 - 24



System Availability Analysis

promune Beceived Percent Satisfied

System Availability 95.0 71

On-5: Le Response 9.4 62

Time (Hrs)

Onsite Reporting 7.0 69

Depot Turn around Time 3.8 71



PC/works to Hon 3

lean Availability Performand Analysis

System Availa	bilets Pers	formand Ana	14513
	MFC	Dealers	TPM
System Availabilits (%)	95.7	95,50	94.5
Res ponse Time (Hrs)	11.3	11.1	7.1
Repair Time (4+3)	6.9	3.9	8-9
Depot Turnaround (duys)	416	2.2	3-3
-			
			_
		7.70	



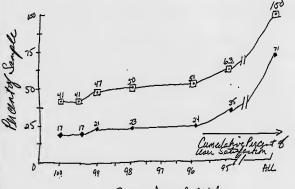


the contract the second second

515 158,279,78

62

PC Workstations System Availability Sortisfaction At Each Requirement Level



System Availability
Requirement Level (Percent)

-5- Percent of Somple at Requirement Kenl -4 Percent been Satisfield the lequirement Since



SUBTEM WITERPUPTION ANALYSIS

ALL DOS PC/WO-K StationS

-	1989		(Bas)	
	MEAN	\$	man	1
SYSTEM INTERRUPTIONS PER MONTU	1.3	Top .	X	7
HARDWARD - CAMBEO	77	22		7
3457cm SOPTWARC-CAUSED	8	(8)	X.	1
APPLICATION SOFTWARE-CAUSED	5	TX I		
OTHER - CANSOD	10			J
		P	10). ———



6



PC/workstation V. With High Pro	SER Satisfaction for: to Services
Disahis field Most Usis Satisfied See 199	Satisfied
100 30	50 100
operations Strange Hot line Su	

Authority 70 substituted 40 time support 69 11

HW Maint Overall 66 11

Spares Availability 65 1)



PC/workstation USER Satisfaction with High Priority Services Disatisfied Satisfied Most Usis Satisfied 100 HW Engineer SK:11 64 Sahahad Su Remote support 52 Satistical



PC/workstation USER Satisfaction with High Priority Services Disahis fiel Satisfied Most Users DESatisfred 100 Su Documentation 52 % Dissatisfied Su Engineer 3Kill 51% Dissahistary Su support overall 5190 Dissatisfied



1 5 ystems,	Availabilite	Performance
PC/	works to to	,
Vendor	System Avail. Received	Percent Satisfied
Apollo (HP)	96-2	80%
Tandy	94.4	75%
IBM	93.7	73%
ALTOS.	93-0	70%
		INPUT

notes:



5 ystemas.	Availabilit	Performa	20
	works In t		-(
	System Avail.	Percent Intist	Seel
_ Vendor	Received	50	190
compag	97.0	6870	_
:			
Apple	94-6	68%	
3UN	96.0	60%	-
		Z	NPUT

Motes:

